Joint Test & Evaluation Program

Program Overview

Jim Thompson
Program Manager
JT&E Program
DOT&E

February 2008

Briefing Content

- **Overview and History**
- **Process**
- **Review and Approval**
- **Support Structure**
- **Current Projects**
- **Recent Accomplishments**

Joint Test and Evaluation Purpose

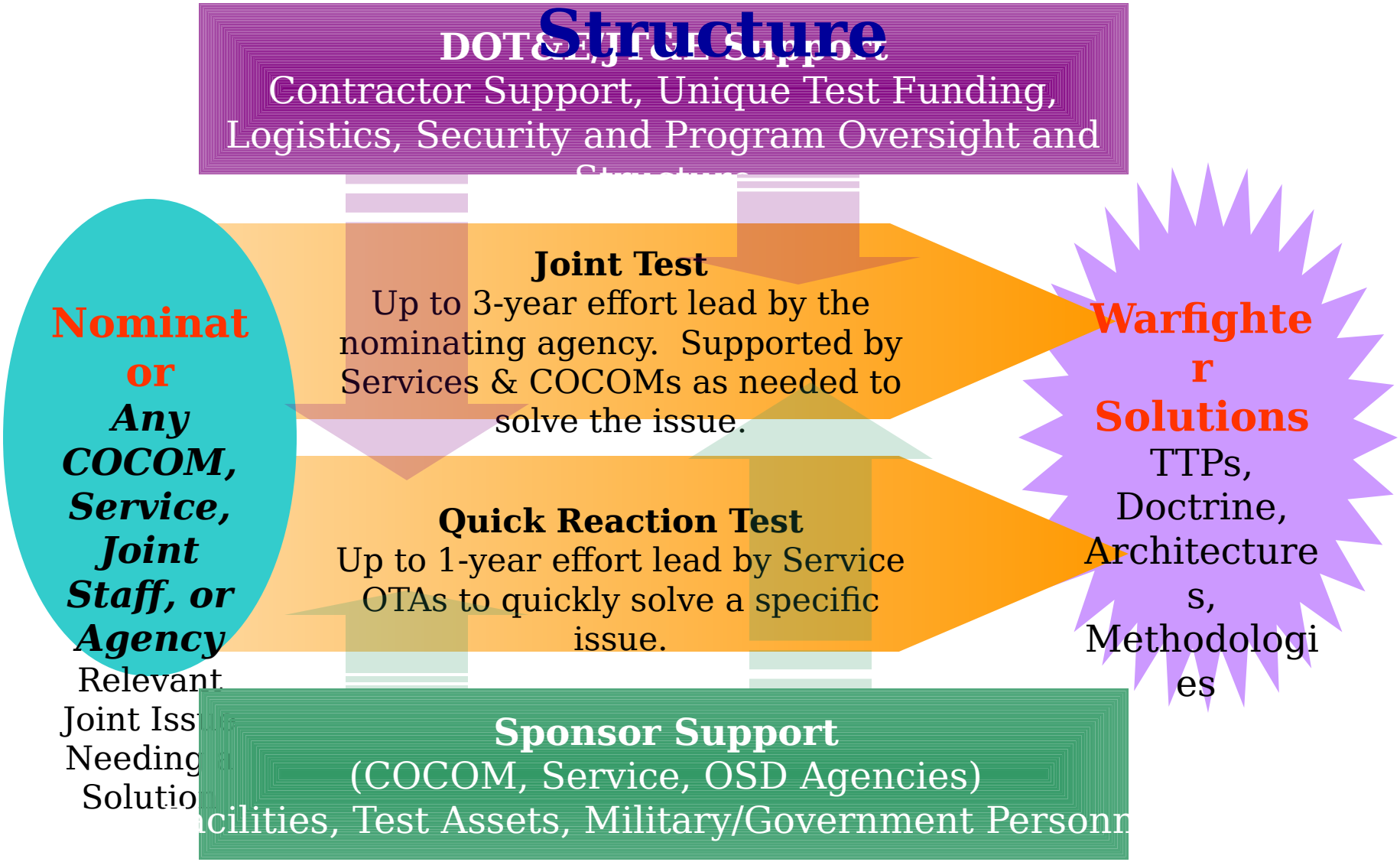
- **Find ways for the warfighters to do their jobs better with today's equipment, organization, and doctrine**
- **Provide better tools and ways to test**
  - Improve testing methodologies that have multi-Service applications
  - Improve modeling and simulation validity with field exercise data
- **Provide feedback to the acquisition and joint operations communities**

Annual Budget – Approximately $40M

How Does the Program Work?

- **Nominating organization proposes JT&E project to resolve operational issue**
- **Selected nominations are chartered and funded by DOT&E but led by the nominating Service or COCOM**
- **Joint Test team resolves the operational issue by finding a process solution**
- **Services and COCOMs team with JT&E Program to provide military personnel, test assets, test venues and facilities**
- **Test products are new joint tactics, techniques, and procedures; architectures; and improve test methodologies; not hardware products.**

Joint Test and Evaluation Structure


DOT&E/JTCB Support
Contractor Support, Unique Test Funding, Logistics, Security and Program Oversight and
Nominator
Any COCOM, Service, Joint Staff, or Agency
Relevant Joint Issue Needing a Solution
Joint Test
Up to 3-year effort lead by the nominating agency. Supported by Services & COCOMs as needed to solve the issue.
Quick Reaction Test
Up to 1-year effort lead by Service OTAs to quickly solve a specific issue.
Warfighter Solutions
TTPs, Doctrine, Architectures, Methodologies
Sponsor Support
(COCOM, Service, OSD Agencies)
Facilities, Test Assets, Military/Government Personn

Joint Test and Evaluation Program

The Process

Two Avenues to Conduct Joint Testing

Quick Reaction Tests

- **Quickly addresses specific and focused warfighter question within scope of JT&E program purpose**
- **Accelerated review, approval, execution**
- **Duration: 6-12 months (Nomination-to-Final Report)**
- **Sponsors: COCOMs, JFCOM, Services, OSD**
- **Testers: Executed by Service operational yest agencies**
- **Product provides specific answer to a specific question**
- **Resourcing for operational test agency participation in accordance with JT&E guidelines**

JT&E Projects

- **In-depth, methodical evaluation of issues within scope of JT&E program purpose**
- **Duration: Up to 3 years (Charter-to-Closedown)**
- **Sponsors: COCOMs, JFCOM, Services, OSD**
- **Testers: Executed by Service-led JT&E test teams**
- **Delivers defined and useful products to warfighter**
  - *Both interim and final products required*

Quick Reaction Test (QRT) Process

- **Nominations generated from a variety of sources at any time**
  - Direct from COCOMs, Joint Staff, Services, OSD
  - Pop-up “hot issues”
  - Regular JT&E seminar/conference to generate QRT proposals
  - Combatant Commander Field Assessment
- **Nominations reviewed for scope and feasibility**
  - Program Office and Joint Test Support Cell (JTSC) actively review
  - Joint Staff and JFCOM input solicited
- **Executive Steering Group meets as needed to review and select nominations for QRTs**
- **Once approved, designated operational test**

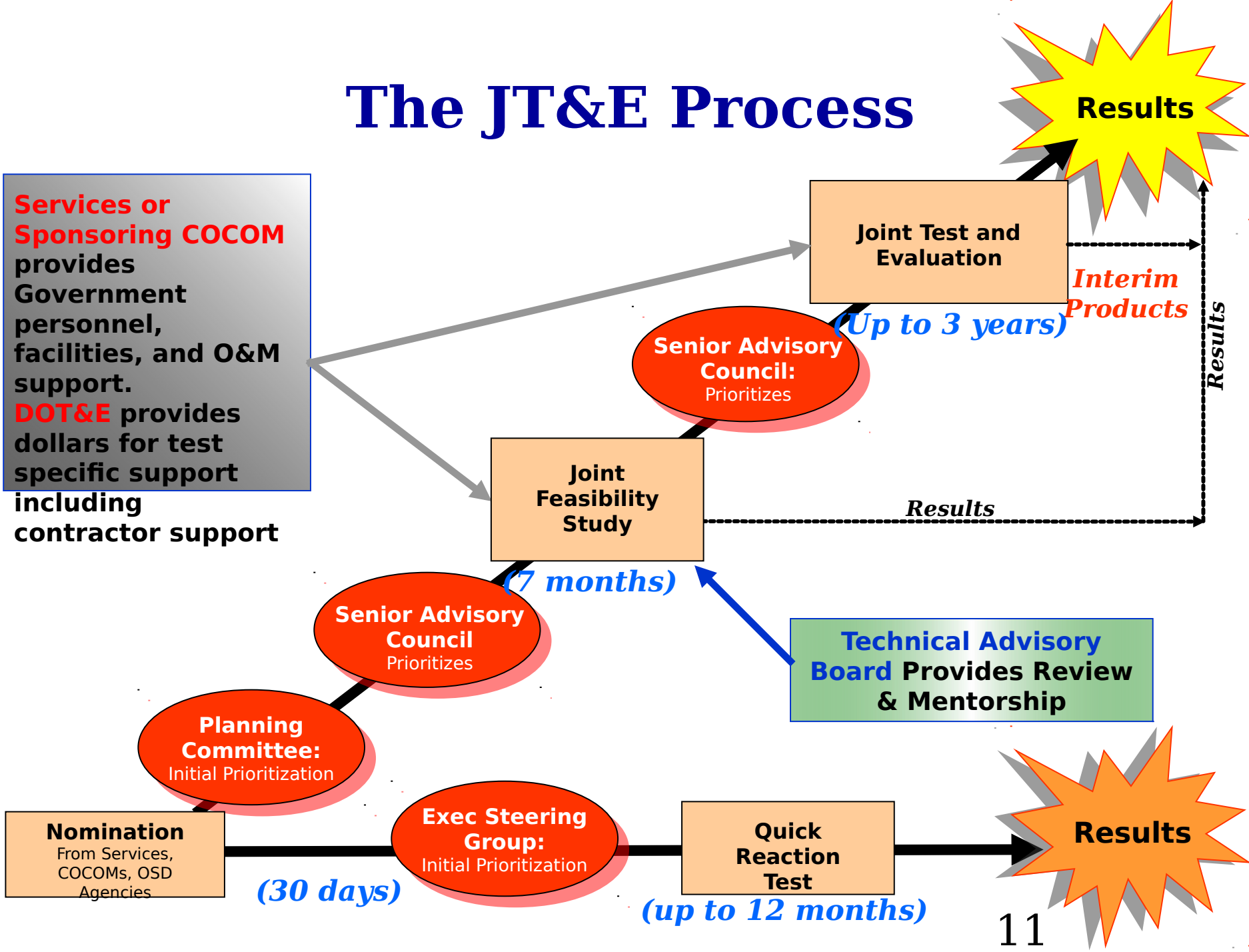
Joint Test Process

- **Process starts with “Call for Nominations” letter**
  - Letter published in March
- **Nominations generated from a variety of sources**
  - COCOMs, Joint Staff, Services, OSD, and other agencies
- **Planning Committee meets in November to review and recommend nominations**
  - Nominations reviewed for scope and feasibility
  - Planning Committee members represent Senior Advisory Council member agencies and have equal vote
- **Senior Advisory Council meets in January to decide which recommendations are directed to conduct Feasibility Studies**

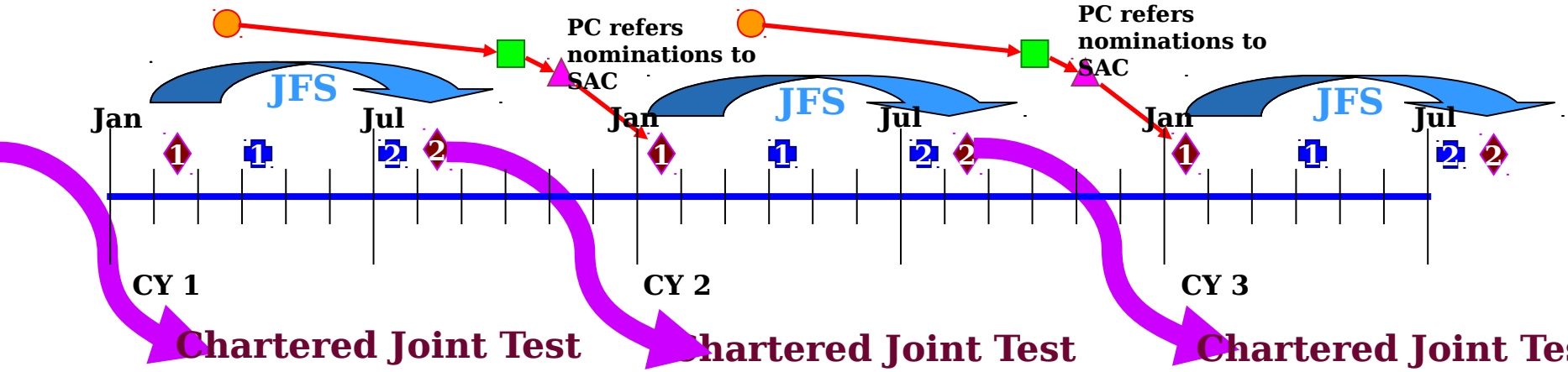
Joint Test Process
(Continued)

- **Joint Feasibility Study (JFS)**
  - Seven month effort, led by a Service or COCOM
  - Resolve two basic issues: Is a JT&E necessary? Is a JT&E feasible?
  - Technical Advisory Board reviews and mentors JFS
  - Develop Project Master Plan and Consolidated Resource Estimate
  - Joint Test Support Cell and JFCOM Liaison assistance provided
- **Senior Advisory Council meets in August to decide which JFS projects to charter as Joint Tests**
- **Chartered Joint Test**
  - Test effort lasting up to 3 years to answer the “Problem Statement”
  - Service or COCOM lead; Sponsor provides infrastructure
  - DOT&E funds contract support and test unique requirements
  - Products focus on customer requirements

The JT&E Process


Results
Services or Sponsoring COCOM provides Government personnel, facilities, and O&M support.
DOT&E provides dollars for test specific support including contractor support
Joint Test and Evaluation
Interim Products
(Up to 3 years)
Senior Advisory Council: Prioritizes
Results
Joint Feasibility Study
Results
(7 months)
Senior Advisory Council Prioritizes
Technical Advisory Board Provides Review & Mentorship
Planning Committee: Initial Prioritization
Nomination From Services, COCOMs, OSD Agencies
(30 days)
Exec Steering Group: Initial Prioritization
Quick Reaction Test
(up to 12 months)
Results

JT&E Joint Test Timeline



= SAC = Call for Nomination = TAB = Service Selection Boards (SSB) = Planning Committee

SAC = Senior Advisory Council – Senior Warfighter, Service, OSD group for recommending Joint Feasibility Studies (JFS) approval (1) and chartering selected JFSs as Joint Tests (2).

TAB = Technical Advisory Board – Meets twice a year to provide technical review of JFSs (1 & 2) and make technical recommendations regarding chartering JFSs to the SAC.

PC = Planning Committee – meets once a year to recommend nominations to the SAC for JFS.

JFS = Joint Feasibility Study – 7 month study to determine if the test is feasible

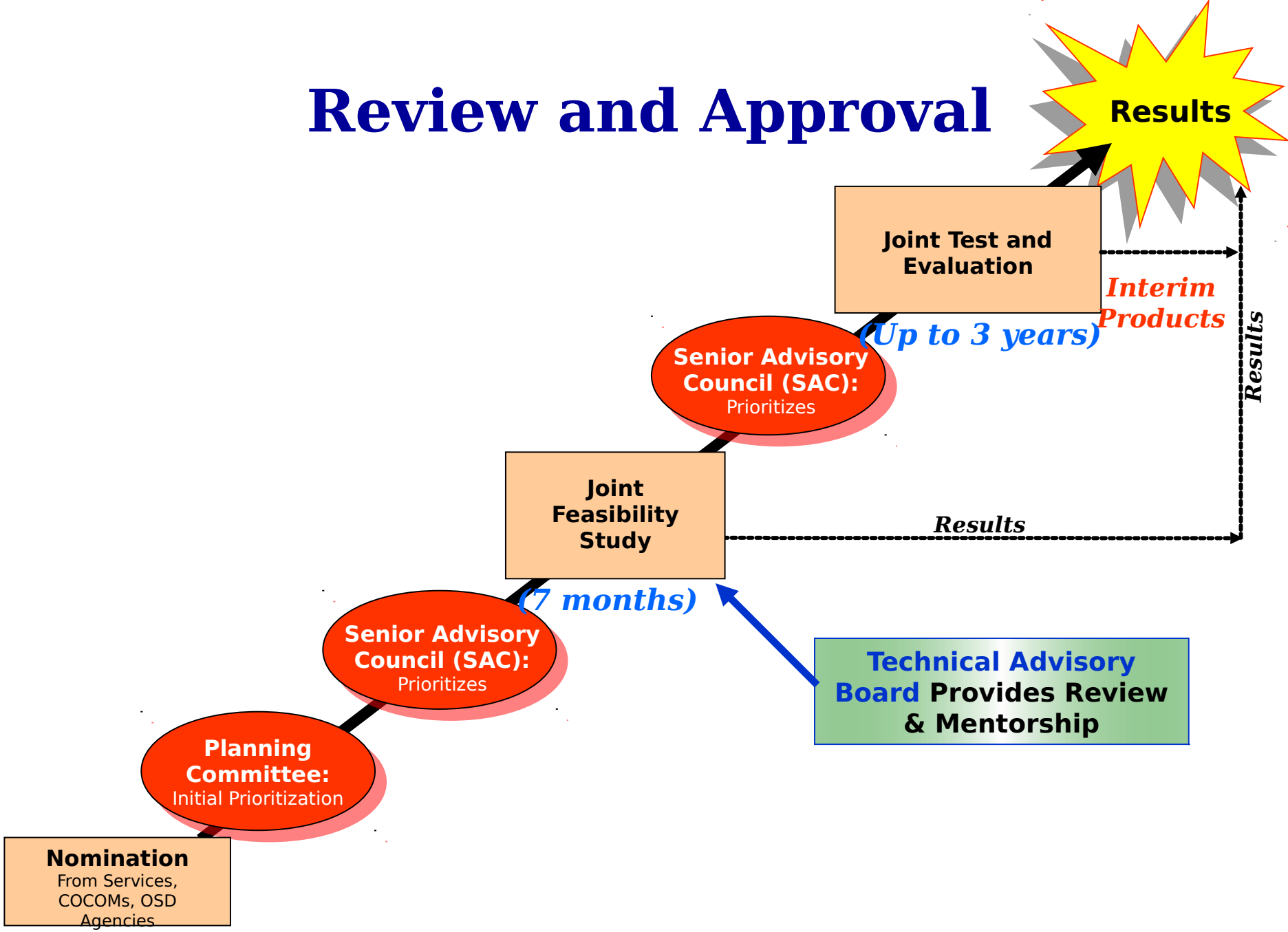
Coordination for Leveraging

- **DOT&E/JT&E is committed to partner with JFCOM**
  - Established JT&E-Suffolk facility near JFCOM
  - Funded liaison efforts for test coordination
  - Coordinating future JT&Es early with J7 Capabilities and Exercise Planners
- **JT&Es identify all potential training venues that could support testing**
  - Uses General Officer Steering Committee and joint working groups to identify potential venues
  - Coordinates with operational test agencies and Service schools to identify potential venues
- **Economies of Scale for test planning**
  - Each JT&E test is responsible for their individual test planning
  - Multiple projects using the same joint venue will have Joint Test Support Cell/Liaison Officer identified as

Joint Test and Evaluation Program

Review & Approval

Review and Approval



Planning Committee

- **Action Officers for Senior Advisory Council Members**
- **Review Nominations**
  - Do they meet the purposes of a JT&E?
  - Has the nominating organization committed the necessary resources?
- **Prioritizes Nominations**
- **Recommends Which Nominations Should Brief the Senior Advisory Council**

Senior Advisory Council (SAC)

- **Advisory Board to DOT&E**
- **Reviews Nominations** **(January SAC meeting)**
  - Based on Planning Committee recommendations
  - Consider purposes of nominations
  - Recommends priority of nominations for directing as a Joint Feasibility Study
- **Reviews Feasibility Studies** **(August SAC meeting)**
  - Considers necessity and feasibility (feasibility recommendation from the TAB)
  - Recommends priority for charter as a Joint Test and Evaluation project
- **Reviews Completed Joint Tests and Evaluation Projects**

Technical Advisory Board

- **Advisory Board to the JT&E Program Director**
- **Senior Test Analysts and Scientists from the Services, OSD, and JFCOM**
- **Reviews the Progress of Joint Feasibility Studies**
  - Technical issues and feasibility
  - Makes recommendation to the Senior Advisory Committee regarding technical feasibility
- **Reviews On-going Joint Test and Evaluation Projects**
  - Technical progress
  - Technical advice and guidance
- **Conduct Meetings in April and July**

Executive Steering Group

- **Advisory Board to DOT&E**
- **Decision Body for Quick Reaction Test (QRT) Nominations**
  - Group meets as nominations are submitted
- **Responsible for Final Vetting and Management Oversight of QRTs**
- **Commit Resources to Support QRT Planning and Execution**
- **Approve Lead operational test agency for selected QRTs**
- **Joint Staff and JFCOM vet QRT nominations for urgency and jointness**

Joint Test and Evaluation Program

Support Structure

Support Structure

Concept

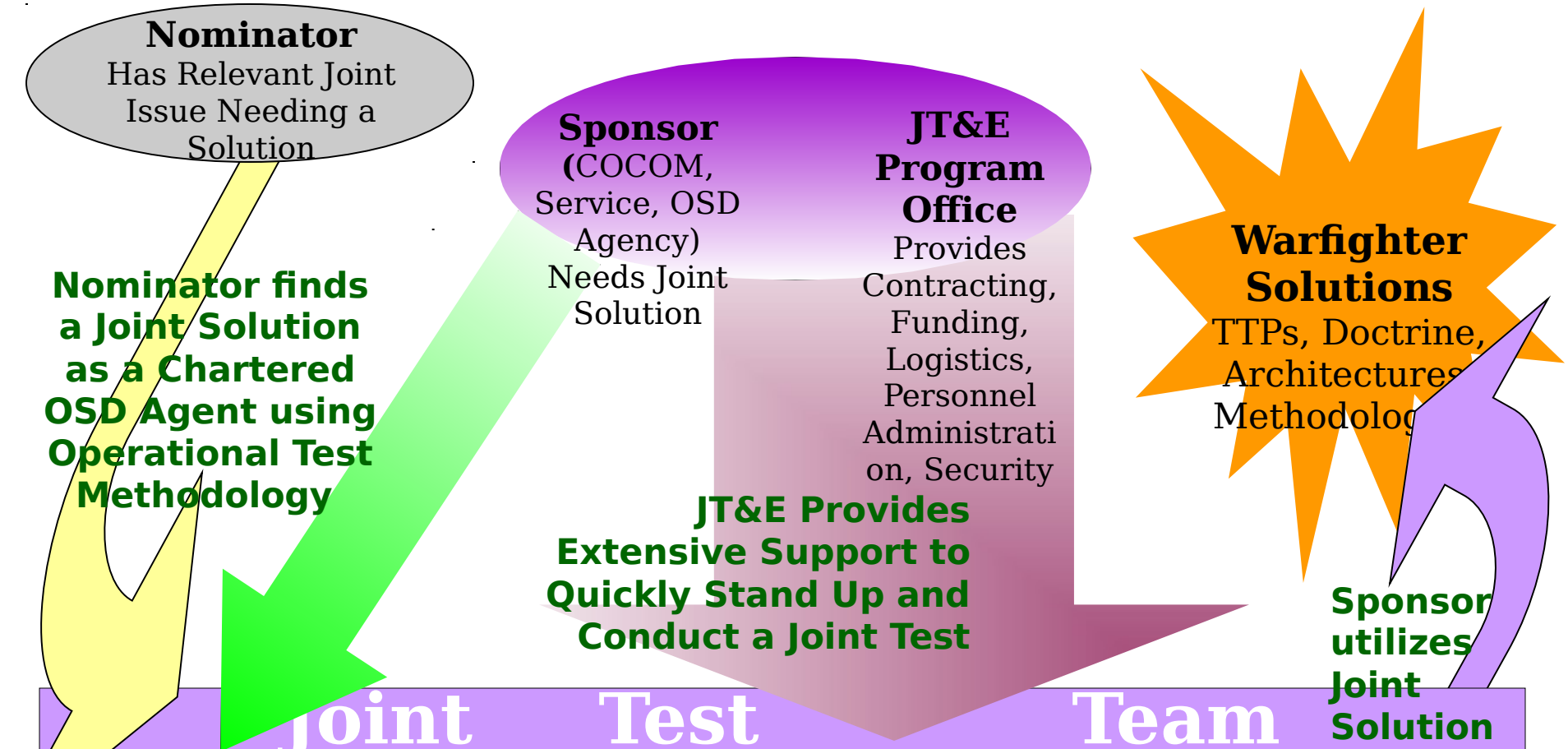
- **JT&E accepts the nominating agency as an expert in the subject area of the proposed issue**
- **Support structure is designed to provide an operational test team which compliments the nominator's expertise**
- **Services partner with JT&E to solve joint interoperability issues**
- **Support structure is designed to stand-up test team, provide support, and disband quickly while maintaining the historical records in the program office**
- **JT&E structure uses the synergy, expertise, and knowledge of field organizations to find credible and relevant joint solutions**

Support Structure

Implementation

- **Program Office provides program management oversight, resources, and guidance on test team structure/approach**
  - Functional guidance in; technical, contracting, financial, logistics, personnel, and security
  - Services align their support with JT&E guidance
- **Services/COCOMs provide government personnel, facilities, and test assets**
- **JT&E provides contract support, travel funding, and test-unique equipment**
- **Oversight and document approval controlled by DOT&E**

Joint Test Support Structure


Nominator
Has Relevant Joint Issue Needing a Solution
Sponsor (COCOM, Service, OSD Agency) Needs Joint Solution
JT&E Program Office
Provides Contracting, Funding, Logistics, Personnel Administration, Security
Warfighter Solutions
TTPs, Doctrine, Architectures, Methodolog
Nominator finds a Joint Solution as a Chartered OSD Agent using Operational Test Methodology
JT&E Provides Extensive Support to Quickly Stand Up and Conduct a Joint Test
Sponsor utilizes Joint Solution

Joint Test Team

Sponsor Support
- Subject Matter Expertise
- Military & Government Personnel
- Facilities
- Test Assets

Contracting
- Task Award
- Task Funding
- Task Management
- Task Closeout

SCI Security
- NAG issue clearance
- Manage SCI Billets
- SCIF
- Secure Equipment Management

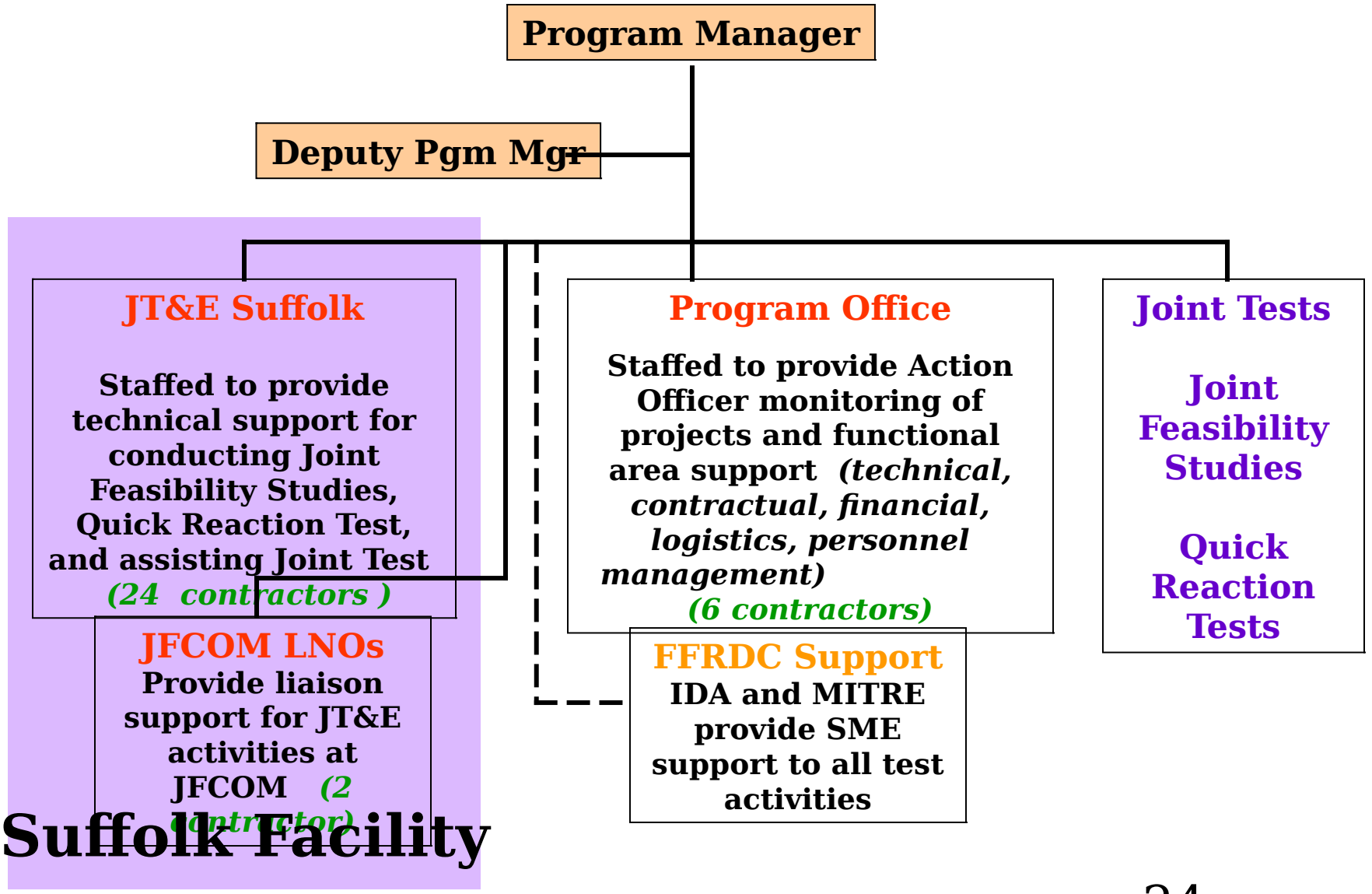
Financial
- Funding Test Unique Costs
- Government Travel
- Government Purchase Cards
- Funding Documents
- Financial Management

Technical
- Document Approval
- Technical Advisory Boards
- Joint Test Support Cell
- Action Officer Support

Logistics
- Property Acquisition
- Property Accountability
- Property Disposition
- Test Site Liaison

Personnel
- Efficiency reports
- Awards
- Promotion Boards

JT&E Program Structure


Program Manager
Deputy Pgm Mgr
JT&E Suffolk
Staffed to provide technical support for conducting Joint Feasibility Studies, Quick Reaction Test, and assisting Joint Test
(24 contractors)
JFCOM LNOs
Provide liaison support for JT&E activities at JFCOM (2 contractor)
Program Office
Staffed to provide Action Officer monitoring of projects and functional area support (technical, contractual, financial, logistics, personnel management)
(6 contractors)
FFRDC Support
IDA and MITRE provide SME support to all test activities
Joint Tests
Joint Feasibility Studies
Quick Reaction Tests
Suffolk Facility

JT&E-Suffolk Facility

- **Joint Test Support Cell**
- **Joint Tests/JFS Site**
- **Facilities**
- **Information Technology Support**
- **Security**
- **Additional Support**

Facility Capabilities

- **26000 square feet**
- **Over 150 cubicle spaces**
- **Full Data Analysis Center (DAC)**
- **SIPRNET/NIPRNET**
- **Sensitive Compartmented Information Facility**
- **Five Conference rooms**
  - Video Teleconferencing Capability
  - Classified meetings/briefings

Joint Test Support Cell (JTSC) Role

- **Group of subject matter experts to provide “quick start” capability for JFS**
- **Training for new nominations, JFS, Joint Tests, and QRTs**
- **Support JPO regarding technical documents**
  - Extension of JPO technical director
  - Review new nominations

JTSC Support Areas

- **Test scoping and concept development**
- **Problem decomposition**
- **Work breakdown structure development**
- **Develop executable JFS and Joint Test plan of action and milestones**
- **Identify appropriate test venues and test tools**
- **Generate necessary technical documentations and presentations**

Suffolk Facility

Support Across JT&E Program

Overview

- **JTSC's thirteen technical experts support Joint Tests and QRTs through generation of technical documentations and presentations.**
  - Provide "quick start" capability for JFS
  - Review new nominations
  - Provide training for new nominations, JFS, JTs and QRTs

- **Expert support staff of eleven provides information technology, security, technical editors and graphic artist professional support.**

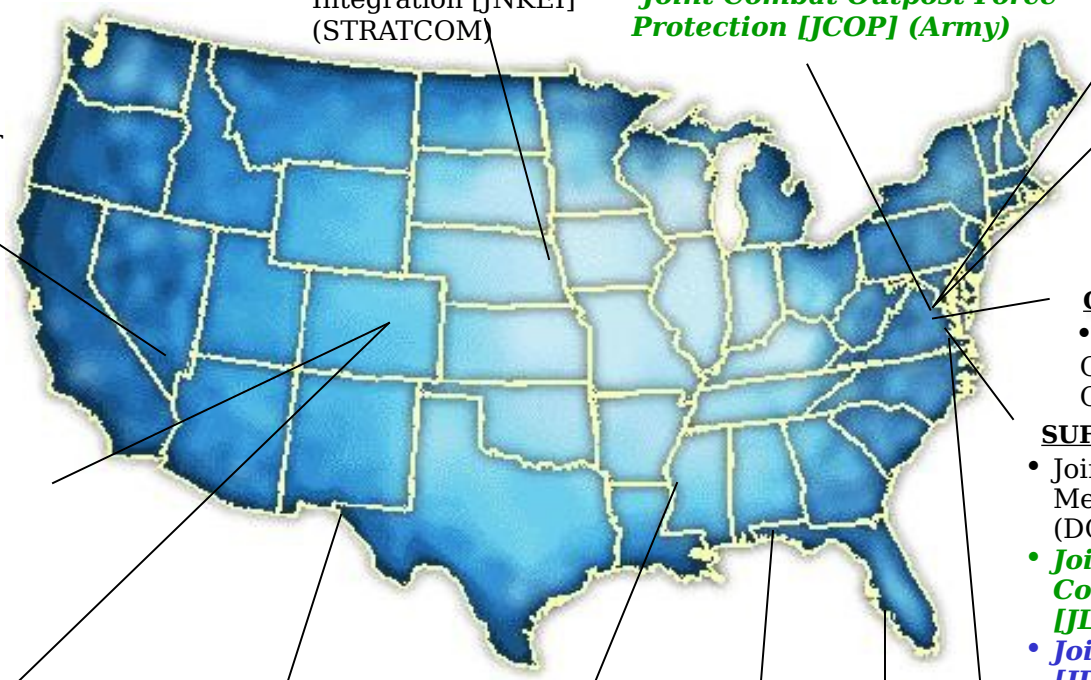
- **There are currently two dedicated and one part-time Service Liaison Officers that communicate with Services warfighters, and two dedicated JT&E Liaison Officers that provide coordination with**

Joint Test and Evaluation Program

Current Projects

Current JT&E Locations

9 Joint Tests, 6 Quick Reaction Tests, 3 Joint Feasibility Studies, 13 Locations



OFFUTT AFB, NE
- Joint Non-Kinetic Effects Integration [JNKEI] (STRATCOM)

ALEXANDRIA, VA
- ***Joint Sniper Defeat [JSD] (Army)***
- ***Joint Combat Outpost Force Protection [JCOP] (Army)***

ALEXANDRIA, VA
- JT&E Program Office

NELLIS AFB, NV
- Joint Electronic Protection For Air Combat [JEPAC] (Air Force)
- ***Joint Integration Of Nationally Derived Information [JINDI] (Air Force)***

WASHINGTON NAVAL YARD, WASHINGTON, DC
- Joint Command and Control for War on Terror Activities [JC2WTA] (Navy)

QUANTICO, VA
- Joint Mobile Network Operations [JMNO] (Marine Corps)

SUFFOLK, VA
- Joint Test and Evaluation Methodology [JTEM] (DOT&E)
- ***Joint Logistics Global Combat Support System [JLGCSS] (Army)***
- ***Joint Data Integration [JDI](JFCOM)***
- JT&E Program Office Suffolk

COLORADO SPRINGS, CO
- Joint Air Defense Operations-Homeland [JADO-H] (NORAD/NORTHCOM)

PETERSON AFB, CO
- Joint Integrated (Interagency and International) Command and Control for Maritime Homeland Defense [JICM] (NORTHCOM)
- ***Engage on Remote [EOR] (NORAD)***

VICKSBURG, MS
- JT&E Business Finance Office

NORFOLK, VA
- ***Joint Tactical Tomahawk Targeting [JHAWK] (Navy)***

MACDILL AFB, FL
- ***Joint Civil Affairs Information Management [J-CIM](SOCOM)***

FORT BLISS, TX
- Joint Airspace Command and Control [JACC] (Army)

EGLIN AFB, FL
- Joint Command and Control of Net Enabled Weapons [JC2NEW] (Air Force)
- ***Joint Integration of Directed Energy for Force Protection [JIDEF](Air Force)***
- JT&E Program Office South

Legend:
- Joint Test
- ***Quick Reaction Test***
- ***Joint Feasibility Study***
- JT&E Program Office Support

Updated: February 7, 2008

Joint Test and Evaluation Program

Recent Accomplishments

Products Delivered Since CY2003

- **13 Quick Reaction Tests (six active) delivered to the warfighter:**
  - **11 Handbooks with more than 121K total copies printed**
  - **14 inputs to Joint or Service organizations providing TTPs, user checklists, standard operating procedures, and revisions to publications**

HANDBOOK
Combat Convoy Handbook
JOINT FORWARD OPERATIONS BASE (JFOB) FORCE PROTECTION HANDBOOK
HANDBOOK
CONVENTIONAL FORCES AND SPECIAL OPERATIONS FORCES INTEGRATION AND INTEROPERABILITY HANDBOOK
Joint Counter Radio Controlled IED Electronic Warfare Handbook

- **13 Joint Tests (nine active) delivered to the warfighter:**
  - **16 inputs to Joint or Service publications**
  - **12 TTP and training packages to customers**
  - **1 of each: DOTMLPF Change Recommendation submitted and architecture package**

The majority of these Joint Tests are still active with numerous products planned for the future

OT&E Contributions to OEF, OIF

JT&E Projects and Quick Reaction Tests (QRTs)

- **Joint Survivability** (QRT) developed and delivered convoy survivability procedures to USCENTCOM to minimize combat casualties. Approximately 90% of deployed convoys are using these procedures. Over 10,000 handbooks have been published, numerous more printed from web sites, and SOCOM is completing a DVD video of the handbook to distribute as a training tool.
- **Joint Unmanned Air Vehicles** provided warfighters with baseline UAV JTTPs. Deployed personnel to the USCENTCOM Air Operations Center to assist in UAV tactics, techniques, and procedures development.
- **Joint Cruise Missile Defense** provided hardware and software tools and a quick assessment of events to defend against cruise missile shots.
- **Joint Logistics/Planning Enhancement** assisting the USCENTCOM J4 staff in improving the process of acquiring and assimilating logistics information to provide a daily status to the USCENTCOM leadership.

OT&E Contributions to OEF, OIF

JT&E Projects and Quick Reaction Tests (QRTs)

- **Joint Command, Control, Intelligence, Surveillance, and Reconnaissance** assisted USCENTCOM, USCENTAF, and Second Fleet in revising the ISR-related portions of time-sensitive targeting (TST) concept of operations and related TTP documents.
- **Joint Battle Damage Assessment** developed a computer-based training package to rapidly instruct large cadres of Reserve augmentee BDA analysts at USCENTCOM-rear and USCENTAF-forward. Provided four enhancements for implementation to the battle damage assessment process.
- **Joint Shipboard Helicopter Integration Process** assisted the USS Kitty Hawk (CTF70) and deployed Special Operations Forces during Operation Enduring Freedom to employ the aircraft carrier as an Afloat Forward Staging Base.
- **The Joint Forward Operations Base Force Protection (JFOB)** QRT was a quick reaction test that found quick solutions, and provided recommendations to the Services, to mitigate the threat of rockets, artillery, and mortars (RAMs) and also vehicle-borne IEDs on forward operations bases in Iraq.

Notable Success Stories

- **Joint Datalink Information Combat Execution (JDICE) (03-06) - Transitioned to Joint Digital Integration for Combat Engagement (JDICE) for the Secretary of the Air Force for Warfighter Integration (SAF/XC)**
- **Joint Global Positioning System Combat Effectiveness (JGPSCE) (99-04) continues today as the Joint Navigation Warfare Center under STRATCOM**
- **Joint Theater Distribution (JTD) (98-02) - Transitioned as a standing organization in Defense Logistics Agency (DLA).**
- **Joint Close Air Support (JCAS) (97-03) - Combined with JCIET under USJFCOM to become Joint Fires Integration and Interoperability Team (JFIIT).**
- **Joint Air Defense Operations/Joint Engagement Zone (90-95) -Institutionalized in All Service Combat Identification and Evaluation Team (ASCIET). ASCIET restructured to Joint Combat Identification and Evaluation Team (JCIET) under U.S. Joint Forces Command (USJFCOM).**
- **Joint Electromagnetic Interference (JIMI) (88-91) – Institutionalized in Electromagnetic Compatibility Analysis Center (ECAC), which is now the Joint Spectrum Center (JSC).**
- **Joint Live Fire (JLF) (84-91) – JLF continues today in DOT&E as the Live Fire T&E Directorate**

Joint Test and Evaluation Bottom Line

- **A quarter century legacy of <u>supporting the warfighters</u>**
- **On the leading edge of developing new tactics, techniques, procedures, & improving test methodologies**
- **Making inventory military systems more effective and capable**
- **The JT&E Program is managed by DOT&E, but requires active participation and support of the Services, OSD Agencies, Joint Staff, JFCOM, and other COCOMS**

www.jte.osd.mil